

TITLE: COVER FOR MAGNETIC OR OPTICAL HARD DISK DRIVE

Abstract: This invention, in general, relates to a magnetic or magneto-optical hard disk drive cover constructed using a carbon-fiber and/or carbon-black filled "Liquid Crystal Polymer" (LCP) resin that is injection molded to form the previously mentioned magnetic or magneto-optical hard disk drive cover. Using injection molded LCP materials and methods can attain an increased dimensional precision. The carbon-fiber and/or carbon-black filled LCP hard disk drive cover is able to attain the requisite rigidity needed to endure vibrations caused by latency eliminating spindle-motors with ever increasing "Revolutions Per Minute" (RPM) properties without using any structural reinforcing metal frames or metal inserts. The addition of carbon-black to a carbon-fiber filled LCP makes a hard disk drive cover constructed from such material, electrically conductive and therefore, acts when installed onto a grounded hard disk drive, as an "Electro-Static Discharge" (ESD), and/or "Electro-Magnetic Interference" (EMI) device.